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- 1** [Communications of the ACM: Volume 52 Issue 7](#)
July 2009 Communications of the ACM

Publisher: ACM

Full text available: Digital Edition, Pdf (7.61 MB)

Bibliometrics: Downloads (6 Weeks): 28, Downloads (12 Months): 28, Downloads (Overall): 28, Citation Count: 0

- 2** [Access Control for Databases: Concepts and Systems](#)

[Elisa Bertino](#), [Gabriel Ghinita](#), [Ashish Kamra](#)

January 2011

Foundations and Trends in Databases, Volume 3 Issue 1-2**Publisher:** Now Publishers Inc.**Bibliometrics:** Downloads (6 Weeks): n/a, Downloads (12 Months): n/a, Downloads (Overall): n/a, Citation Count:

As organizations depend on, possibly distributed, information systems for operational, decisional and strategic activities, they are vulnerable to security breaches leading to data theft and unauthorized disclosures even as to gain productivity and ...

- 3** [NFS version 4 Protocol](#)

[S. Shepler](#), [B. Callaghan](#), [D. Robinson](#), [B. Thurlow](#), [C. Beame](#), [M. Eisler](#), [D. Noveck](#)

December 2000

NFS version 4 Protocol

Publisher: RFC Editor

Full text available: Txt (450.43 KB)

Bibliometrics: Downloads (6 Weeks): 1, Downloads (12 Months): 1, Downloads (Overall): 21, Citation Count: 12

NFS (Network File System) version 4 is a distributed file system protocol which owes heritage to NFS protocol versions 2 [RFC1094] and 3 [RFC1813]. Unlike earlier versions, the NFS version 4 protocol supports traditional access while integrating ...

- 4** [Network File System \(NFS\) version 4 Protocol](#)

[S. Shepler](#), [B. Callaghan](#), [D. Robinson](#), [B. Thurlow](#), [C. Beame](#), [M. Eisler](#), [D. Noveck](#)

April 2003

Network File System (NFS) version 4 Protocol

Publisher: RFC Editor

Full text available: Txt (600.99 KB)

Bibliometrics: Downloads (6 Weeks): 1, Downloads (12 Months): 1, Downloads (Overall): 108, Citation Count: 15

The Network File System (NFS) version 4 is a distributed filesystem protocol which owes heritage to NFS protocol version 2, RFC 1094, and version 3, RFC 1813. Unlike earlier versions, the NFS version 4 protocol supports traditional file access while ...

- 5** [Communications of the ACM: Volume 51 Issue 7](#)

July 2008

Communications of the ACM

Publisher: ACM

Full text available: Digital Edition, Pdf (6.54 MB)

Bibliometrics: Downloads (6 Weeks): 17, Downloads (12 Months): 17, Downloads (Overall): 4887, Citation Count:

- 6** [Proceedings of the 14th international conference on Principles of distributed systems](#)

[Chanyang Lu](#), [Toshimitsu Masuzawa](#), [Mohamed Mosbah](#)

December 2010

OPODIS'10: Proceedings of the 14th international conference on Principles of distributed systems**Publisher:** Springer-Verlag

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7 Online reorganization of databases

Gary H. Sockni, Balakrishna R. Iyer

July 2009

Computing Surveys (CSUR), Volume 41 Issue 3

Publisher: ACM  [Request Permissions](#)

Full text available:  [Pdf](#) (886.15 KB)

Bibliometrics: Downloads (6 Weeks): 90, Downloads (12 Months): 970, Downloads (Overall): 2767, Citation Count:

In practice, any database management system sometimes needs reorganization, that is, a change in some aspect of the logical and/or physical arrangement of a database. In traditional practice, many types of reorganization have required denying access ...

Keywords: Clustering, concurrent reorganization, indexes, log-structured file systems, maintenance, online reorganization, redefinition, reorganization, restructuring, schema evolution, very large databases

8 An Approach for Managing Service Dependencies with XML and the Resource Description Framework

Christian Ensle, Alexander Keller

June 2002

Journal of Network and Systems Management, Volume 10 Issue 2

Publisher: Plenum Press

Full text available:  [Publisher Site](#)

Bibliometrics: Downloads (6 Weeks): n/a, Downloads (12 Months): n/a, Downloads (Overall): n/a, Citation Count:

We describe a novel approach for applying XML, XPath, and Resource Description Framework (RDF) to the problem of describing, querying and computing the dependencies among services in a distributed computing system. This becomes increasingly important ...

Keywords: Dependency Analysis, RDF, Web-based Application Management, XML, XPath

9 Reducing downtime due to system maintenance and upgrades

Shaya Potter, Jason Nieh

December 2005

LISA '05: Proceedings of the 19th conference on Large Installation System Administration Conference - Volume 19, Volume 19

Publisher: USENIX Association

Bibliometrics: Downloads (6 Weeks): n/a, Downloads (12 Months): n/a, Downloads (Overall): n/a, Citation Count:

Patching, upgrading, and maintaining operating system software is a growing management complexity problem that can result in unacceptable system downtime. We introduce AutoPod, a system that enables unscheduled operating system updates while preserving ...

10 Secure Prolog-based mobile code

Seng Wai Lok, Andrew Davidson

May 2001

Theory and Practice of Logic Programming, Volume 1 Issue 3

Publisher: Cambridge University Press

Bibliometrics: Downloads (6 Weeks): n/a, Downloads (12 Months): n/a, Downloads (Overall): n/a, Citation Count:

LogicWeb mobile code consists of Prolog-like rules embedded in Web pages, thereby adding logic programming behaviour to those pages. Since LogicWeb programs are downloaded from foreign hosts and executed locally, there is a need to protect the client ...

Keywords: Prolog, World Wide Web, mobile code security

11 The case of the fake Picasso: preventing history forgery with secure provenance

Ragib Hasan, Radu Sion, Marianne Winslett

February 2009

FAST '09: Proceedings of the 7th conference on File and storage technologies

Publisher: USENIX Association


Bibliometrics: Downloads (6 Weeks): n/a, Downloads (12 Months): n/a, Downloads (Overall): n/a, Citation Count:

As increasing amounts of valuable information are produced and persist digitally, the ability to determine the origin of data becomes important. In science, medicine, commerce, and government, data provenance tracking is essential for rights protection, ...

12 Rule-based workflow management for bioinformatics


S. Conery, M. Catchen, Michael Lynch

September 2005




The VLDB Journal — The International Journal on Very Large Data Bases, Volume 18, Issue 3**Publisher:** Springer-Verlag New York, Inc.Full text available:  [Pdf](#) (428.34 KB)**Bibliometrics:** Downloads (6 Weeks): 8, Downloads (12 Months): 39, Downloads (Overall): 907, Citation Count: 4

We describe a data-centric software architecture for bioinformatics workflows and a rule-based workflow enactment system that uses declarative specifications of data dependences between steps to automatically order the execution of those steps. A data-centric ...

Keywords: Bioinformatics, Rule-based system, Workflow

- 13 [Flight data recorder: monitoring persistent-state interactions to improve systems management](#)
[Chad Verbowski](#), [Emre Kiciman](#), [Arunvijay Kumar](#), [Brad Daniels](#), [Shan Lu](#), [Juhun Lee](#), [Yi-Min Wang](#), [Roussi Roussee](#)
 November 2006 **OSDI '06: Proceedings of the 7th symposium on Operating systems design and implementation**
Publisher: USENIX Association
 Full text available:  [Pdf](#) (457.56 KB)
Bibliometrics: Downloads (6 Weeks): 5, Downloads (12 Months): 34, Downloads (Overall): 187, Citation Count: 7

Mismanagement of the persistent state of a system---all the executable files, configuration settings and other c that govern how a system functions---causes reliability problems, security vulnerabilities, and drives up operati costs. Recent research ...

- 14 [A taxonomy of Data Grids for distributed data sharing, management and processing](#)
[Srikumar Venugopal](#), [Raikumar Buyya](#), [Kotaqiri Ramamohanarao](#)
 June 2006 **Computing Surveys (CSUR)**, Volume 38 Issue 1
Publisher: ACM 
 Full text available:  [Pdf](#) (1.70 MB)
Bibliometrics: Downloads (6 Weeks): 80, Downloads (12 Months): 666, Downloads (Overall): 6915, Citation Count: 1


Data Grids have been adopted as the next generation platform by many scientific communities that need to sh access, transport, process, and manage large data collections distributed worldwide. They combine high-end computing technologies with high-performance ...

Keywords: Grid computing, data-intensive applications, replica management, virtual organizations

- 15 [Mariposa: a wide-area distributed database system](#)
[Michael Stonebraker](#), [Paul M. Aoki](#), [Witold Litwin](#), [Avi Pfeffer](#), [Adam Sah](#), [Jeff Sidel](#), [Carl Staelin](#), [Andrew Yu](#)
 January 1996 **The VLDB Journal — The International Journal on Very Large Data Bases**, Volume 5 Issue 1
Publisher: Springer-Verlag New York, Inc.
 Full text available:  [Pdf](#) (172.75 KB)
Bibliometrics: Downloads (6 Weeks): 15, Downloads (12 Months): 126, Downloads (Overall): 849, Citation Count: 1

The requirements of wide-area distributed database systems differ dramatically from those of local-area network systems. In a wide-area network (WAN) configuration, individual sites usually report to different system administrators, have different access ...

Keywords: Autonomy, Databases, Distributed systems, Economic site, Name service, Wide-area network

- 16 [Efficient access to many small files in a filesystem for grid computing](#)
[Douglas Thain](#), [Christopher Mrett](#)
 September 2007 **GRI D '07: Proceedings of the 8th IEEE/ACM International Conference on Grid Compu**
Publisher: IEEE Computer Society
 Full text available:  [Pdf](#) (207.55 KB)
Bibliometrics: Downloads (6 Weeks): 2, Downloads (12 Months): 27, Downloads (Overall): 116, Citation Count: 3


Many potential users of grid computing systems have a need to manage large numbers of small files. However, computing and storage grids are generally optimized for the management of large files. As a result, users with small files achieve performance ...

- 17 [Boxwood: abstractions as the foundation for storage infrastructure](#)
[John MacCormick](#), [Nick Murphy](#), [Marc Najork](#), [Chandramohan A. Thekkath](#), [Lidong Zhou](#)
 December 2004 **OSDI'04: Proceedings of the 6th conference on Symposium on Operating Systems Design Implementation - Volume 6**, Volume 6
Publisher: USENIX Association

Bibliometrics: Downloads (6 Weeks): n/a, Downloads (12 Months): n/a, Downloads (Overall): n/a, Citation Count:

Writers of complex storage applications such as distributed file systems and databases are faced with the challenges of building complex abstractions over simple storage devices like disks. These challenges are exacerbated due to the additional requirements ...


18 [An overview of the HDF5 technology suite and its applications](#)

 [Mike Folk, Gerd Heiser, Guiney Kozel, Elena Fournal, Dana Robinson](#)

March 2011

AD '11: Proceedings of the EDBT/ICDT 2011 Workshop on Array Databases

Publisher: ACM  [Request Permissions](#)

Full text available:  [PDF](#) (1.66 MB)

Bibliometrics: Downloads (6 Weeks): 9, Downloads (12 Months): 13, Downloads (Overall): 13, Citation Count: 0

In this paper, we give an overview of the HDF5 technology suite and some of its applications. We discuss the H data model, the HDF5 software architecture and some of its performance enhancing capabilities.

Keywords: HDF5, data management, data models, databases

19 [SPM: System for Password Management](#)

[Michael A. Cooper](#)

September 1995

LISA '95: Proceedings of the 9th USENIX conference on System administration

Publisher: USENIX Association

Bibliometrics: Downloads (6 Weeks): n/a, Downloads (12 Months): n/a, Downloads (Overall): n/a, Citation Count:

Most UNIX operating systems are not delivered with adequate facilities to address password management in medium to large, heterogeneous environments. The System for Password Management (SPM, pronounced span provides multiple levels of user verification ...


20 [Data management for large-scale scientific computations in high performance distributed systems](#)

[A. Choudhary, M. Kandemir, J. Ng, G. Memik, K. Shen, W. Liao, H. Nagesh, S. Maiti, V. Taylor, R. Thakur, R. Steyr](#)

January 2000

Cluster Computing, Volume 3 Issue 1

Publisher: Kluwer Academic Publishers

Full text available:  [Publisher Site](#)

Bibliometrics: Downloads (6 Weeks): n/a, Downloads (12 Months): n/a, Downloads (Overall): n/a, Citation Count:

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